

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-17 (Canceled).

18. (New) A method for producing a carrier for the determination of analytes, comprising:

- (a) providing a microfluidic carrier,
- (b) passing liquid with receptor building blocks for synthesizing polymeric receptors over predetermined zones on the carrier,
- (c) immobilizing the receptor building blocks in said predetermined zones on the carrier and
- (d) repeating steps (b) and (c) until the desired receptors have been synthesized in the predetermined zones using the receptor building blocks,

wherein hapten groups are applied to the carrier before, during or/and after the synthesis of the receptors.

19. (New) The method according to claim 18, wherein said receptor building blocks are immobilized using site and/or time specific immobilization.

20. (New) A method for the quality control of receptor syntheses on a carrier, comprising;

- (a) providing a carrier,
- (b) applying hapten groups to the complete surface of the carrier or a part thereof which comprises zones for receptor synthesis and adjacent zones on which no receptor synthesis is to take place,
- (c) carrying out a receptor synthesis on the carrier,
- (d) contacting the carrier with a hapten detection reagent which permits detection of hapten groups,
- (e) evaluating the hapten group detection on the carrier and
- (f) correlating the result of the evaluation with the quality or/and efficiency of the receptor synthesis.

21. (New) A method for the quality control of receptor syntheses, comprising:

- (a) providing a carrier,
- (b) carrying out a receptor synthesis on the carrier, wherein hapten groups are incorporated during the synthesis into the receptor molecules at predetermined positions,

- (c) contacting the carrier with a hapten detection reagent which permits detection of hapten groups,
 - (d) evaluating the hapten group detection on the carrier and
 - (e) correlating the results of the evaluation with the quality or/and efficiency of the receptor synthesis.
22. (New) The method according to claim 18, wherein said carrier is a microfluidic carrier with channels and said predetermined zones are in said channels.
23. (New) The method according to claim 22, wherein said channels are closed channels.
24. (New) The method according to claim 1, wherein the receptors are biopolymers.
25. (New) The method according to claim 24, wherein said biopolymers are selected from the group consisting of nucleic acids, nucleic acid analogs, proteins, peptides and carbohydrates.
26. (New) The method according to claim 18, wherein the receptors are selected from the group consisting of nucleic acids and nucleic acid analogs.
27. (New) The method according to claim 18, wherein a carrier is produced with a plurality of different receptor zones.

28. (New) The method according to claim 27, wherein the carrier has at least 50 different receptor zones.
29. (New) The method according to claim 27, wherein the carrier has at least 100 different receptor zones.
30. (New) The method according to claim 18, wherein the hapten groups are organic molecules having a molecular weight of up to 2,000, which are recognized by a high affinity specific binding partner.
31. (New) The method according to claim 30, wherein the hapten groups are selected from digoxin, digoxigenin, dinitrophenol, biotin and biotin analogs.
32. (New) The method according to claim 18, wherein the hapten groups are applied to the complete surface of the carrier or a part thereof which comprises zones for receptor synthesis and adjacent zones on which no receptor synthesis is to take place.
33. (New) The method according to claim 18, wherein the hapten groups are applied selectively onto respective single zones or groups of zones for the receptor synthesis.
34. (New) The method according to claim 18, wherein the hapten groups are applied directly to the surface of the carrier.
35. (New) The method according to claim 18, wherein the hapten groups are inserted into spacer molecules which are disposed between the carrier surface and the receptors.

36. (New) The method according to claim 18, wherein the hapten groups are inserted at one or more positions into the receptors synthesized on the carrier.
37. (New) The method according to claim 18, wherein the hapten groups are applied reversibly.
38. (New) The method according to claim 18, wherein the hapten groups are applied irreversibly.